2. (Cancelled) The method of claim 1, wherein the plasma comprises less than about 75% by volume of argon.

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- 3. (Amended) The method of claim [2] 1, wherein hydrogen is provided to the processing chamber in a [helium and hydrogen] mixture of about 95% [helium] by volume of helium and about 5% [hydrogen] by volume of hydrogen.
- 4. (Amended) The method of claim 1, <u>further comprising increasing the helium content</u> of the plasma to increase etching of the patterned substrate surface [wherein an etch rate increases when helium content increases].
- 5. The method of claim 1, wherein the substrate surface comprises silicon oxide or silicon nitride.
- 6. The method of claim 1, wherein the plasma is capacitively and inductively powered.
- 7. The method of claim 1, wherein argon, helium and hydrogen are introduced into the processing chamber to establish a pressure from about 1 mTorr to about 200 mTorr.

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(Amended) A method for processing a substrate in a processing chamber, comprising:

- (a) exposing a patterned substrate surface to a plasma [comprising] consisting of argon, helium and hydrogen [in a processing chamber]; and
- (b) increasing the helium content of the plasma to increase etching of the patterned substrate surface, wherein the plasma comprises less than about 75% by volume of argon.
- 9. (Cancelled) The method of claim 8, wherein the plasma comprises less than about 75% by volume of argon.

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10. (Amended) The method of claim [9] 8, wherein hydrogen is provided to the processing chamber in a [helium and hydrogen] mixture of about 95% [helium] by volume of helium and about 5% [hydrogen] by volume of hydrogen.

- 11. The method of claim 8, wherein the substrate surface comprises silicon oxide or silicon nitride.
- 12. The method of claim 8, wherein the plasma is capacitively and inductively powered.
- 13. The method of claim 1, wherein argon, helium and hydrogen are introduced into the processing chamber to establish a pressure from about 1 mTorr to about 200 mTorr.
- 14. A method for processing a substrate, comprising:
- (a) exposing a patterned substrate surface to a plasma comprising argon, helium and hydrogen in a processing chamber, wherein the plasma is capacitively and inductively powered; and
  - (b) increasing the helium content of the plasma to increase etching of the patterned substrate surface, wherein the plasma comprises less than about 75% by volume of argon.
  - 15. (Amended) The method of claim 14, wherein hydrogen is provided to the processing chamber in a [helium and hydrogen] mixture of about 95% [helium] by volume of helium and about 5% [hydrogen] by volume of hydrogen.
  - 16. The method of claim 15, wherein the substrate surface comprises silicon oxide or silicon nitride.
  - 17. The method of claim 14, wherein argon, helium and hydrogen are introduced into the processing chamber to establish a pressure from about 1 mTorr to about 200 mTorr.
  - 18. The method of claim 1, wherein the plasma comprises between about 25% and about 75% by volume of argon.
  - 19. The method of claim 8, wherein the plasma comprises between about 25% and about 75% by volume of argon.

- 20. The method of claim 14, wherein the plasma comprises between about 25% and about 75% by volume of argon.
- 21. The method of claim 1, wherein the plasma is generated by delivering a power level of between about 10 watts and about 500 watts to the processing chamber.
- 22. The method of claim 8, wherein the plasma is generated by delivering a power level of between about 10 watts and about 500 watts to the processing chamber.
- 23. The method of claim 14, wherein the plasma is generated by delivering a power level of between about 10 watts and about 500 watts to the processing chamber.

Please add the following new claims 24-30:

- patterned substrate surface to a plasma consisting of less than 75% by volume of argon and a mixture of about 95% by volume of helium and about 5% by volume of hydrogen.
- 25. The method of claim 24, wherein the plasma is capacitively and inductively powered.
- 26. The method of claim 24, further comprising increasing the helium content of the plasma to increase etching of the patterned substrate surface.
- 27. The method of claim 24, wherein the substrate surface comprises silicon oxide or silicon nitride.
- 28. The method of claim 24, wherein argon, helium and hydrogen are introduced into the processing chamber to establish a pressure from about 1 mTorr to about 200 mTorr.